

AN-C 8410/1

8502

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NEW VERSION OF WOLF'S MONITOR

The Version 2.0 of Wolf's Monitor is supplied in a 2532 4K EPROM.

The MZB-3 must be modified before the 2532 is plugged into the EPROM socket, (which remains addressed at E000 as before). The modifications are very simple, and are detailed on a separate sheet. * Once modified the MZB-3 is still perfectly suitable for use with earlier firmware supplied in 2716s.

* see

AN-C36

The tape routines are different from those in the original version. The error correcting method has been abandoned (but a checksum is added at the end of each block recorded, which must match one calculated when the tape is played back) and therefore tapes load and save twice as quickly as before. Sadly tapes produced by one version cannot be read by the other.

The new commands are:

TM Make a test tape

TT Read a test tape; any dropouts or other misreads will print an 'E' on the console.

TD xxxx yyyy filename.typ Dumps a file to tape.

TS nn filename.typ Dumps nn blocks to tape, starting at address 0100 (Like CP/M's 'SAVE').

TR Read a tape without assuming any protocol. i.e. ANY rubbish will be read as well as the sensible bits.

TL xxxx Load the next encountered file from tape starting at address xxxx. (0100 hex if address omitted).

P nn Input one byte from port nn

P nn xx Output the byte xx to port nn

I nn mm pp xx Input from disk nn blocks, starting at track mm, sector pp and put into memory starting at address xxxx. If xxxx is omitted, the current value of HL (use the X command) will be used as the starting address. Important: Before using the disk input-output routines the config byte must be set (use L command) to suit your disk drives:

Config byte at addr 004F

R R X s B S N N

R R = stepping rate (see 2797 spec)

X if set to 1, use stepping rate of other (5/8) type drive.

s = side (0 or 1)

B = 1 for 8in drive, 0 for 5in.

S = 1 for single density, 0 for double density.

NN = drive number to be used.

e.g. for 8" DRE drives SS DD use 48 hex. for drive A, and 49 hex.

for drive B:

01----- = 6ms step rate
--0----- = according to 8in table
---0----- = side 0
----1---- = 8" drive
-----0-- = DD
-----00 = drive A; -----01 = drive B

0 nn mm pp xxxx Output to disk (parameters as for input)

You cannot read or write more than one track at a time.

e.g. I 27 2 1 0100 will fail after reading 26 sectors (for 26-sectored diskettes)

On exit A-reg = 0 for correct operation
 1 for CRC error
 2 for hardware error (or nonexistent track
 or sector)
 3 attempt to write to protected disk
HL will always be updated appropriately
(Use the X command to examine the contents of the registers
immediately after executing the I command)

V xxxx yyyy zzzz Compare (verify) the contents of the block xxxx
to yyyy with the block starting at zzzz, displaying any
differences.

The remaining commands in the monitor are unchanged.

Wolf Schroeder 8th October 1984,
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